

ABSTRACT OF THE DISCLOSURE

A vaporizer is provided for delivering a solid source, for example, arsenic vaporized in a crucible into an arc chamber through a nozzle, wherein the vaporizer includes a nozzle formed with a gas inlet port 5 130 formed in upward orientation and located downward from the upper end of the inner surface of the crucible. Here, when the crucible has an inner diameter of, for example, 26 mm, the gas inlet port 130 is preferably formed at a position approximately 1.1 mm below the upper end of the inner surface of the crucible, thereby 10 facilitating the introduction of the gas from the gas inlet port 130, and preventing clogging of the nozzle.